

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nobuaki TAKAHASHI et al.
Title: MUTANTS OF ANTI-CD40 ANTIBODY
Int'l. Appl. No.: PCT/JP2004/019750
Int'l. Filing Date: 12/24/2004
Examiner: Unassigned
Art Unit: Unassigned
Confirmation Number: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

AP20 Rec'd PCT/PTO 23 JUN 2006
TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The documents being cited in the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding international application. A copy of the International Search Report is attached setting forth the portion of the documents considered relevant by the examiner. A copy of the cited references listed in the Search Report are not being submitted herewith.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date June 23, 2006
FOLEY & LARDNER LLP
Customer Number: 22428
Telephone: (202) 672-5404
Facsimile: (202) 672-5399

By Courtey C. Brinckerhoff
Courtey C. Brinckerhoff
Attorney for Applicant
Registration No. 37,288

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	Unassigned
Date Submitted: June 23, 2006		Filing Date	June 23, 2006
(use as many sheets as necessary)		First Named Inventor	Nobuaki TAKAHASHI
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	081356-0262

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴ Kind Code ⁵ (if known)				
		WO	2002/088186	A1	11/7/2002		
		JP	2003-519470	A	6/24/2003		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
		E.E. BUCCHIE et al., "Mapping of the C1q binding site on rituxan, a chimeric antibody with a human IgG1 Fc", 2000, <i>J. Immunol.</i> , 164(6), p. 4170-4184.	
		M.H. TAG et al., "Structural features of human immunoglobulin G that determine isotype-specific differences in complement activation", 1993, <i>J. Exp. Med.</i> , 178(6), pp. 664-666.	
		A. MORGAN et al., "The N-terminal end of the G1H2 domain of chimeric human IgG1 anti-HLA DR is necessary for C1q, Fc gamma RI and Fc gamma RII binding", 1995, <i>Immunology</i> , 85(2), pp. 319-324.	
		M.P. REDDY, et al., "Elimination of Fc Receptor-Dependent Effector Functions of a Modified IgG4 Monoclonal Antibody to Human CD4", 2000, <i>J. Immunol.</i> , 164, pp. 1920-1930.	
		S. ANGAL et al., "A single amino acid substitution abolishes the heterogeneity of chimeric mouse/human (IgG4) antibody", 1993, <i>Mol. Immunol.</i> , 30(1), pp. 103-106.	

REFERENCES NOT PROVIDED

Examiner Signature	/Phillip Gambel/	Date Considered	08/16/2009
-----------------------	------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 23, 2006 <i>(use as many sheets as necessary)</i>			Complete if Known 10/584345	
Application Number	Unassigned			
Filing Date	June 23, 2006			
First Named Inventor	Nobuaki TAKAHASHI			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
Attorney Docket Number	081356-0262			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T#
		Y-XU et al., "Residue at position 381 in the IgG1 and IgG4 C _{H2} domains contributes to their differential ability to bind and activate complement", 1994, J. Biol. Chem. 269(5), pp. 3469-3474.	
		M. H. TAO et al., "The differential ability of human IgG1 and IgG4 to activate complement is determined by the C _Q CH terminal sequence of the C _{H2} domain", 1994, J. Exp. Med., 179(4), pp. 1023-1026.	
		S.E. IDUSOGUE et al., "Engineered antibodies with increased activity to recruit complement", 2004, J. Immunol., 163(4), pp. 2674-2675.	
		R.G. AALDERSE et al., "IgG4 breaking the rules", 2002, Immunology, 105(4), pp. 8-10.	
		R. NEWMAN et al., "Modification of the Fc Region of a Primalized IgG Antibody to Human CD4 Retains Its Ability to Modulate CD4 Receptors but Does Not Deplete CD4+ T Cells in Chimpanzees", 2001, Clinical Immunology, 96(2), pp. 164-174.	
		REFERENCES NOT PROVIDED	

Examiner Signature	/Phillip Gambel/	Date Considered	08/16/2009
-----------------------	------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time are welcome. Send this form to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450